

# HDAC1-specific Polyclonal antibody

Catalog Number: 16160-1-AP

## Basic Information

**Catalog Number:**

16160-1-AP

**Size:**

133 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

NM\_004964

**GeneID (NCBI):**

3065

**UNIPROT ID:**

Q13547

**Full Name:**

histone deacetylase 1

**Calculated MW:**

55 kDa

**Observed MW:**

60 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IF/ICC 1:10-1:100

## Applications

**Tested Applications:**

IF/ICC, IP, WB, ELISA

**Species Specificity:**

human, mouse, rat

**Positive Controls:****WB:** mouse testis tissue, mouse brain tissue, mouse thymus tissue**IP:** mouse testis tissue,**IF/ICC:** HepG2 cells,

## Background Information

Histone deacetylases (HDAC) are a class of enzymes that remove the acetyl groups from the lysine residues leading to the formation of a condensed and transcriptionally silenced chromatin. The protein encoded by this gene belongs to the histone deacetylase/acuc/apha family and is a component of the histone deacetylase complex, which is responsible for gene expression silencing. It also plays an important role in the control of cell proliferation and differentiation by interacting with RB, p53 and other transcription factors. At least 4 classes of HDAC were identified. As a class I HDAC, HDAC 1 was primarily found in the nucleus. This antibody is a rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of human HDAC1 and is specific to HDAC1. It does not react with other HDACs.

## Storage

**Storage:**

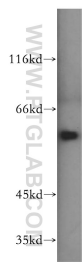
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

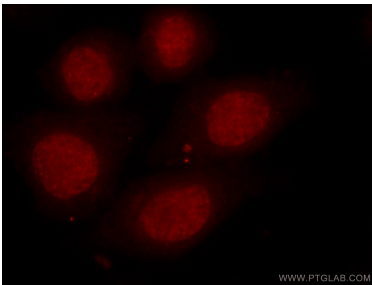
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

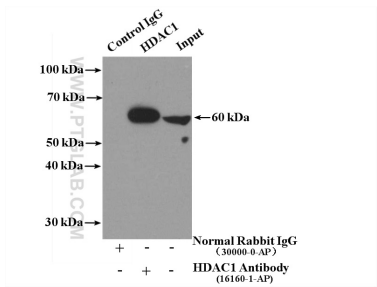
Selected Validation Data



mouse testis tissue were subjected to SDS PAGE followed by western blot with 16160-1-AP (HDAC1-specific antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of HepG2 cells using 16160-1-AP (HDAC1-specific antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG.



IP result of anti-HDAC1-specific (IP:16160-1-AP, 4ug; Detection:16160-1-AP 1:500) with mouse testis tissue lysate 4000ug.